

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF TRANSPORTATION



Bureau of Aviation  
716 Trans. & Safety Bldg.  
Harrisburg, PA 17120  
717-783-2282

May 9, 1989

IN REPLY REFER TO

Mr. Robert L. Hoover, P.E.  
11704 Seven Locks Road  
Potomac, MD 20854

RE: Review type: FAA Form 7460-1  
Aeronautical Study #: 89-AEA-0451-OE  
Nearest Airport: Keller Bros. &  
Millard

Dear Mr. Hoover:

The Pennsylvania Bureau of Aviation is in receipt of a copy of the Notice of Proposed Construction or Alteration submitted to the FAA dated February 24, 1989, in reference to the proposed Low Power TV Antennas east of the Millard Airport at 40° 19' 49" North Latitude and 76° 25' 37" West Longitude.

This Notice has been reviewed and it has been determined that the proposed structure will not exceed FAR Part 77 Airport Obstruction Standards and is in compliance with state law; therefore, we have no objection to the proposed construction.

Our review is not intended to preempt any local and federal laws, ordinances or restrictions that may require other action in regard to the proposed construction.

Sincerely,

Charles H. Hostetter, A.A.E.  
Director  
Bureau of Aviation

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF TRANSPORTATION



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May 9, 1989

IN REPLY REFER TO

Mr. Robert L. Hoover, P.E.  
11704 Seven Locks Road  
Potomac, MD 20854

RE: Review type: FAA Form 7460-1  
Aeronautical Study #: 89-AEA-0360-OE  
Nearest Airport: Warner

Dear Mr. Hoover:

The Pennsylvania Bureau of Aviation is in receipt of a copy of the Notice of Proposed Construction or Alteration submitted to the FAA dated February 21, 1989, in reference to the proposed Low Power TV Antenna north of the Warner Airport at 39° 54' 42" North Latitude and 76° 37' 15" West Longitude.

This Notice has been reviewed and it has been determined that the proposed structure will not exceed FAR Part 77 Airport Obstruction Standards and is in compliance with state law; therefore, we have no objection to the proposed construction.

Our review is not intended to preempt any local and federal laws, ordinances or restrictions that may require other action in regard to the proposed construction.

Sincerely,

Charles H. Hostetter, A.A.E.  
Director  
Bureau of Aviation

DR. R. L. HOOVER, P.E.

R. L. HOOVER  
CONSULTING TELECOMMUNICATIONS ENGINEER

11704 SEVEN LOCKS ROAD  
POTOMAC, MARYLAND 20854

(301) 983-0054

May 15th, 1989

R-6-15  
RECEIVED

MAY 17 1989

COHEN & BERFIELD

Mr. David Gardner  
Raystay Company

Dear David:

As for Lancaster, we received a request for additional information on the Lebanon site Channel 38 operation from the Jamaica, Long Island FAA on the matter of possible spurious emission jamming to its nearby site. Attached are two copies of our reply.

And as for the Lancaster case, I don't think they have wised up that there is an application for Channel 55 also in Lebanon.

Sincerely,



Bob Hoover, PE

Copy w/ atchmnt to Mort Berfield, Esquire

- 90 -

DR. R. L. HOOVER, P.E.

R. L. HOOVER  
CONSULTING TELECOMMUNICATIONS ENGINEER  
11704 SEVEN LOCKS ROAD  
POTOMAC, MARYLAND 20854  
(301) 983-0054

R-6-15  
RECEIVED

MAY 16 1989

COHEN & BERFIELD

May 15th, 1989

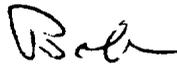
Mr. David Gardner  
Raystay Company

Dear David:

We received a request for additional information on the Lancaster site Channel 23 operation from the Jamaica, Long Island FAA on the matter of possible spurious emission jamming to its nearby site. Attached are two copies of our reply.

I don't think they have wised up that there is an application for Channel 31 also in Lancaster.

Sincerely,



Bob Hoover, PE

Copy w/ atchmnt to Mort Berfield, Esquire ✓

R. L. HOOVER  
CONSULTING TELECOMMUNICATIONS ENGINEER

11704 SEVEN LOCKS ROAD  
POTOMAC, MARYLAND 20854  
(301) 983-0054

May 15th, 1989

Federal Aviation Administration  
Airway Facilities Division  
Communications/Interference Section  
Fitzgerald Building, AEA-433  
John F. Kennedy International Airport  
Jamaica, New York 11430

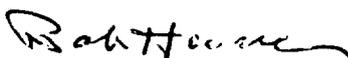
re: Study 89-AEA-0452-OE  
Raystay Company LPTV Application in  
Lancaster, Pennsylvania

The application before the FCC on behalf of the Raystay Company for a new Low Power Television Station on Channel 23 in Lancaster, Pennsylvania is being reviewed for its electromagnetic compatibility with a nearby FAA facility.

The applicant's proposed operation specifies approximately 21.6 dB of suppression by: 1)  $L_p$ , polarization loss of 16 dB because the applicant proposes horizontal (only) polarization from its antenna; 2)  $L_d$ , Antenna vertical directivity of approximately 5.2 dB (a -2 degree beam tilt is proposed), where the vertical radiation characteristic or vertical shape factor of the proposed antenna is herewith provided in the attached Figure 6 of the Application before the FCC; and EIRP, Effective Radiation would be reduced at the azimuthal angle subtended from the proposed LPTV station and the FAA site by approximately 0.42 dB. Our calculation shows this azimuthal angle to be approximately 14.9 degrees true, where the proposed LPTV directional antenna would be pointed at 286 degrees true, as shown in the attached Figures 4 and 5 of the Application.

The sum of these items results in approximately 21.6 dB spurious signal attenuation. Per the attached letter from the transmitter vendor, an additional 18 dB (a total of 78 dB) is provided below the video carrier frequency in the 225 to 400 MHz band and an additional 27 dB (a total of 87 dB) is provided in the 108 to 137 MHz band. Adding 21.6 dB from the proposed antenna parameters and an additional 18 dB from the transmitter specification results in 39.6 dB, which is in excess of the guideline indicated, 26 dB additional spurious radiation attenuation.

Sincerely,



Bob Hoover, PE

Atchmnts: Comptability Request, Fig's 4, 5 & 6 and vendor letter



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

Eastern Region

Federal Building  
John F. Kennedy  
International Airport  
Jamaica, New York 11430

**MAY 9 1989**

**ELECTROMAGNETIC COMPATIBILITY REQUEST**

David A. Gardner  
c/o Bob Hoover, P.E.  
11704 Seven Locks Road  
Potomac, Maryland 20854

Re: Study No. 89-AEA-0452-OE

Dear Sirs:

Your Notice of Proposed Construction or Alteration (FAA form 7460-1) is being reviewed with respect to its electromagnetic compatibility with the surrounding FAA facilities by authority of the Federal Aviation Act of 1958, as amended, Sections 307(a) and 313(a).

Based on an agreement between the FAA and FCC in 1981, your transmitter must not exceed -4 dBm fundamental, and -104 dBm spurious signal level at our site.

Please provide any additional information which supports the compatibility of your transmitter with our criteria, by filling out the enclosed preaddressed form and returning it to this office. The signal levels shown on the attached work sheet were calculated using the frequency and power which you supplied.

Your prompt reply will allow us to expedite your proposal.

Sincerely,

Charles S. Shuler  
Manager, Operations, Procedures and Airspace Branch

Enclosures

ELECTROMAGNETIC COMPATIBILITY REQUEST

David A. Gardner  
c/o Bob Hoover, P.E.  
11704 Seven Locks Road  
Potomac, Maryland 20854

Re: Study No. 89-AEA-0452-0E

Please confirm or add the appropriate attenuation for your facility by checking the box(es) at left of item and validate with signature:

My transmitter provides at least 86 dB of spurious emission attenuation (26 dB greater than the FCC required 60 dB) in the 108-137, 225-400 Mhz frequency bands. Applicant's proposed transmitter would exceed 78 dB of spurious emission attenuation.

---- or ----

My transmission system can provide the additional 26 dB of attenuation in the 108-137, 225-400 Mhz frequency bands as follows:  
(e.g. polarization loss -16 dB, attenuator - 26 dB)

Type of Loss:

Atten:

Transmitter, per atch letter  
EIRP  
Lp, Horz Polarization  
Ld, Ant vert directivity

18 dB  
0.42 dB  
16 dB  
5.2

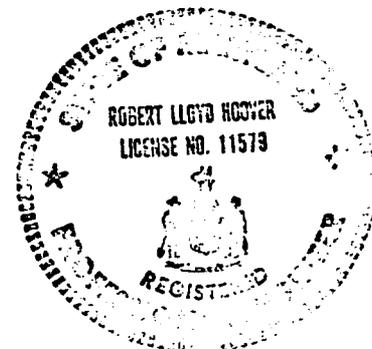
Total

39.6

*Robert Lloyd Hoover*  
SIGNATURE OF AUTHORIZING OFFICIAL  
Robert Lloyd Hoover, PE

May 15th 89  
DATE  
May 15th, 89

Registered Professional Engineer,  
TITLE New Jersey #GE28700  
Maryland #11579



AIRSPACE NUMBER: 89-AEA-0452-0E

LOCATION: LANCASTER, PA

DATE: 24-Apr-89

FAA SITE: RCAG

Lat N	40 7 29	Protected frequency	121.7	MHz
Lon W	76 17 52	Antenna height AMSL	433.0	ft

PROPONENT: GARDNR

Lat N	40 3 47	Radiated Power	28.5	Kw
Lon W	76 19 9	Frequency	525.3	MHz
		Antenna height AMSL	527.0	ft
		Slant Distance: Da =	23247.9	ft
		Theta	0.2	deg

=====

EIRP = Effective Radiated Power of the proponent.  
 $EIRP = 10 \log (\text{power in Kw}) + 62.2$  76.7 dBm

Lr = Receiver system on frequency losses.  
 Use 3 dB if actual value unknown. 3.0 dB

La = Typical ground/air antenna loss.  
 Select VHF or UHF graph from menu. 4.0 dB

Lp = Polarization loss between the victim and  
 broadcast antennas. If the broadcast  
 antenna is horizontally polarized, Lp = 16 dB,  
 for circular polarization, Lp = 0 dB. 0.0 dB

Ld = Antenna vertical directivity. This term  
 requires antenna pattern data from the  
 proponent. E = relative E-field at vertical  
 Theta from above. If unknown, enter E = 1.  
 $Ld = 10 \log (E)^2$  E = 1 0.0 dB

Sr = FCC spurious emission tolerance. Enter the  
 lesser: 80 dB for FM, 60 dB for TV, or  
 $43 + 10 \log ERP \text{ in watts} = 87.5$  60.0 dB

Lv = Free space transmission loss at the victim  
 receive frequency.  
 $Lv = 20 \log (\text{freq. in MHz} \times Da \text{ in ft}) - 37$  92.0 dB

Li = Free space transmission loss at the  
 frequency of the interfering station. 104.7 dB

=====

IN-BAND RADIATION (must be less than -104 dBm)  
 $EIRP - Lv - Ld - Lp - Lr - Sr$  =====> -78.3 dBm

OUT-OF-BAND RADIATION (must be less than -4 dBm)  
 $EIRP - Li - Ld - Lp - Lr - La$  =====> -35.0 dBm

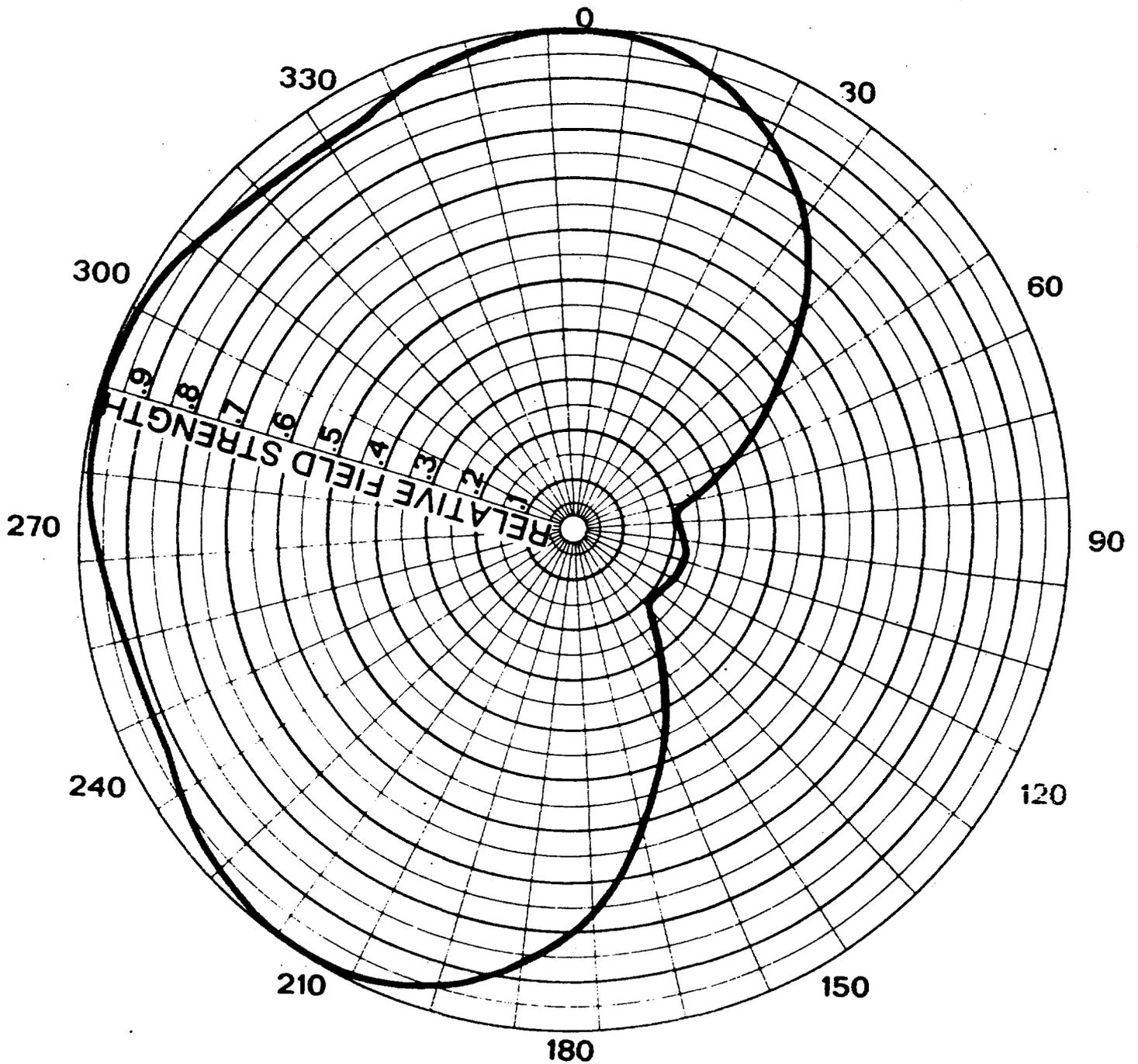
Figure 4

Tabulation of Bogner type B16UA Antenna  
Relative Field Strength in the Horizontal Plane  
from the Commission's Files

Channel 23

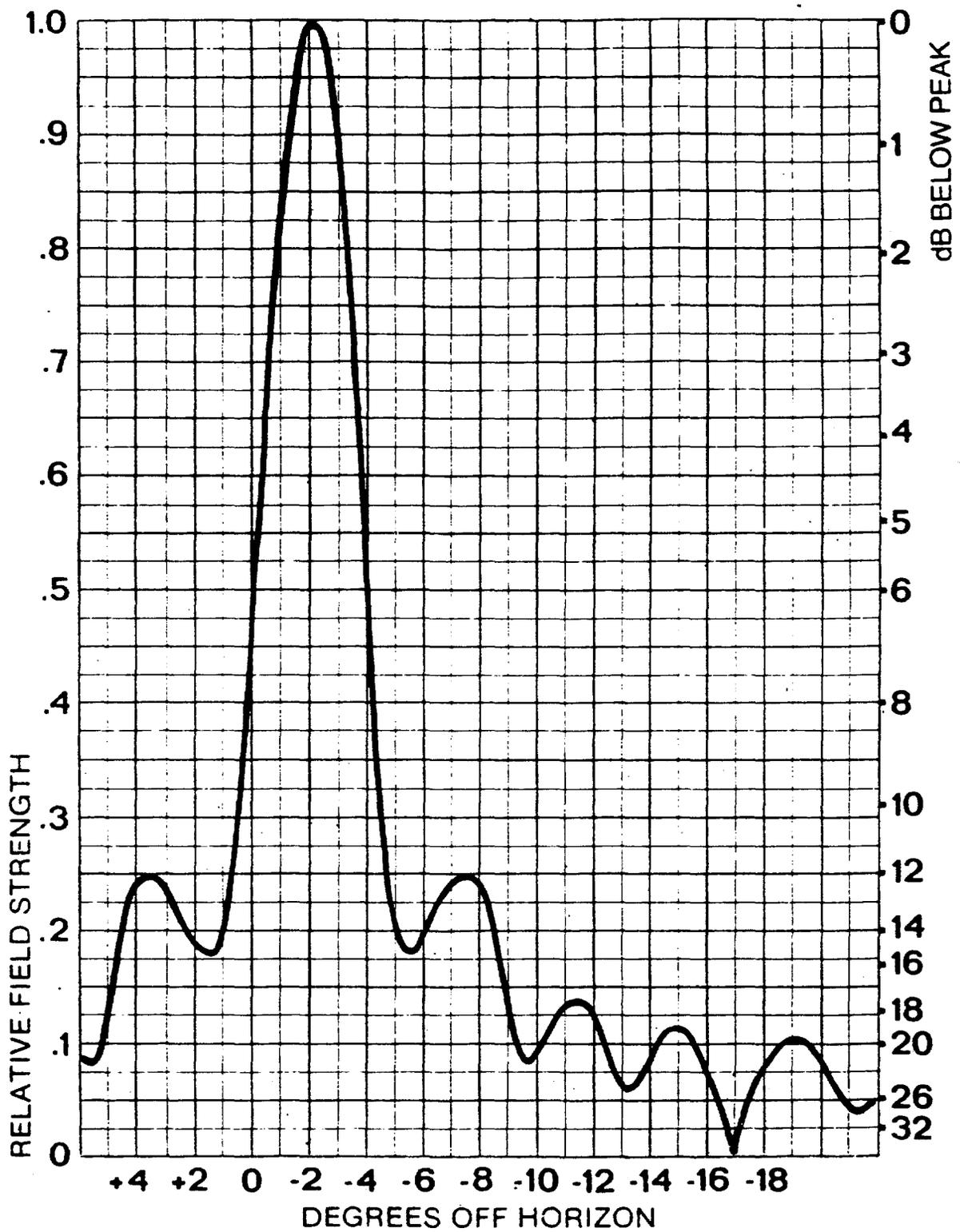
Raystay Company  
Lancaster, Pennsylvania

AZIMUTH	TABULATED GAIN	
-----	-----	
0.00	1.000	Main Lobe
10.00	0.970	Oriented at N-286-E
20.00	0.950	
30.00	0.925	
40.00	0.920	
50.00	0.940	
60.00	0.975	
70.00	1.000	
80.00	0.980	
90.00	0.950	
100.00	0.875	
110.00	0.775	
120.00	0.630	
130.00	0.470	
140.00	0.350	
150.00	0.230	
160.00	0.220	
170.00	0.225	
180.00	0.230	
190.00	0.225	
200.00	0.220	
210.00	0.230	
220.00	0.350	
230.00	0.470	
240.00	0.630	
250.00	0.775	
260.00	0.875	
270.00	0.950	
280.00	0.980	
290.00	1.000	
300.00	0.975	
310.00	0.940	
320.00	0.920	
330.00	0.925	
340.00	0.950	
350.00	0.970	



Bogner Broadcast Equipment Corp.  
Westbury, N.Y. 11590.

**Figure 5**  
Horizontal Plot of  
Relative Field from B16UA Ant  
Oriented at N-286-E  
Channel 23  
Raystay Company  
Lancaster, Pennsylvania  
R. L. HOOVER  
CONSULTING  
TELECOMMUNICATIONS ENGINEER



Bogner Broadcast Equipment Corp.  
Westbury, N.Y. 11590

**Figure 6**  
 Vertical Shape Factor  
 for B16UA Antenna  
 with  $-2^\circ$  Beam Tilt  
 Channel 23  
 Raystay Company  
 Lancaster, Pennsylvania

R. L. HOOVER  
 CONSULTING  
 TELECOMMUNICATIONS ENGINEER

# ACRODYNE

Acrodyne Industries, Inc.  
516 Township Line Road  
Blue Bell, Pennsylvania 19422  
215/542-7000 800/523-2596  
Telex: 846358  
FAX: 215/540-5837

April 24, 1989

Mr. Robert Hoover  
11704 Seven Locks Road  
Potomac, MD 20854

Dear Bob:

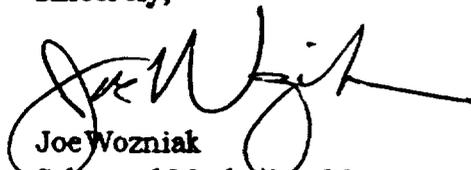
In response to the FAA's concern that you related to us, emissions below 400MHz, as measured at the output of our TLU/1KACT 1kW UHF TV Transmitter, operating on any UHF channel, would be less than the following levels:

108MHz-137MHz....87dB below video carrier  
225MHz-400MHz....78dB below video carrier

The performance specifications for this equipment are enclosed for your reference. Of course, to measure for compliance with the FAA's specifications requires special testing which could be performed at the factory or in the field at an additional charge.

If you have any questions, please do not hesitate to call us.

Sincerely,



Joe Wozniak  
Sales and Marketing Manager

R. L. HOOVER  
CONSULTING TELECOMMUNICATIONS ENGINEER

11704 SEVEN LOCKS ROAD  
POTOMAC, MARYLAND 20854  
(301) 983-0054

RECEIVED  
MAY 17 1989

May 15th, 1989

COHEN & BERFIELD

Federal Aviation Administration  
Airway Facilities Division  
Communications/Interference Section  
Fitzgerald Federal Building, AEA-433  
John F. Kennedy International Airport  
Jamaica, New York 11430

re: Study 89-AEA-0451-OE  
Raystay Company LPTV Application in  
Lebanon, Pennsylvania

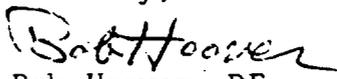
The application before the FCC on behalf of the Raystay Company for a new Low Power Television Station on Channel 38 in Lebanon, Pennsylvania is being reviewed for its electromagnetic compatibility with a nearby FAA facility in Indiantown Gap.

The applicant's proposed operation specifies approximately 23.6 dB of suppression by: 1) Lp, polarization loss of 16 dB because the applicant proposes horizontal (only) polarization from its antenna; 2) Ld, Antenna vertical directivity of approximately 5.6 dB (a -2 degree beam tilt is proposed), where the vertical radiation characteristic or vertical shape factor of the proposed antenna is herewith provided in the attached Figure 6 of the Application before the FCC; and 3) EIRP, Effective Radiation would be reduced by a directional antenna at the azimuthal angle subtended from the proposed LPTV station and the FAA site by approximately 2 dB. Our calculation shows this azimuthal angle to be approximately 313 degrees true, where the proposed LPTV directional antenna would be pointed at 205.3 degrees true, as shown in the attached Figures 4 and 5 of the Application.

The sum of these items results in approximately 23.6 dB spurious signal attenuation, which is in excess of the guideline indicated, 18 dB additional spurious radiation attenuation.

Per the attached letter from the transmitter vendor, an additional 18 dB (a total of 78 dB) is also provided below the video carrier frequency in the 225 to 400 MHz band and an additional 27 dB (a total of 87 dB) is provided in the 108 to 137 MHz band.

Sincerely,

  
Bob Hoover, PE

Atchmnts: Compatability Request, Fig's 4, 5 & 6 and vendor letter



U.S. Department  
of Transportation

**Federal Aviation  
Administration**

Eastern Region

Federal Building  
John F. Kennedy  
International Airport  
Jamaica, New York 11430

MAY 9 1989

ELECTROMAGNETIC COMPATIBILITY REQUEST

David A. Gardner  
c/o Bob Hoover, P.E.  
11704 Seven Locks Road  
Potomac, Maryland 20854

Re: Study No. 89-AEA-0451-OE

Dear Sirs:

Your Notice of Proposed Construction or Alteration (FAA form 7460-1) is being reviewed with respect to its electromagnetic compatibility with the surrounding FAA facilities by authority of the Federal Aviation Act of 1958, as amended, Sections 307(a) and 313(a).

Based on an agreement between the FAA and FCC in 1981, your transmitter must not exceed -4 dBm fundamental, and -104 dBm spurious signal level at our site.

Please provide any additional information which supports the compatibility of your transmitter with our criteria, by filling out the enclosed preaddressed form and returning it to this office. The signal levels shown on the attached work sheet were calculated using the frequency and power which you supplied.

Your prompt reply will allow us to expedite your proposal.

Sincerely,

Charles S. Shuler  
Manager, Operations, Procedures and Airspace Branch

Enclosures

ELECTROMAGNETIC COMPATIBILITY REQUEST

David A. Gardner  
c/o Bob Hoover, P.E.  
11704 Seven Locks Road  
Potomac, Maryland 20854

Re: Study No. 89-AEA-0451-OE

Please confirm or add the appropriate attenuation for your facility by checking the box(es) at left of item and validate with signature:

[ x ] My transmitter provides at least 78 dB of spurious emission attenuation (18 dB greater than the FCC required 60 dB) in the 108-137, 225-400 Mhz frequency bands.  
Applicant's proposed transmitter would exceed 78 dB of spurious emission attenuation. However, additional attenuation identified below also provides 23.6 dB attenuation. ----- or -----

[ x ] My transmission system can provide the additional 18 dB of attenuation in the 108-137, 225-400 Mhz frequency bands as follows:  
(e.g. polarization loss -16 dB, attenuator - 18 dB)

Type of Loss:	Atten:
EIRP	2.0 dB
<u>Lp, Horz polarization</u>	<u>16.0 dB</u>
<u>Ld, Ant vert directivity</u>	<u>5.6 dB</u>
Total	23.6 dB

Robert Lloyd Hoover  
SIGNATURE OF AUTHORIZING OFFICIAL  
Robert Lloyd Hoover, PE

15 May 89  
DATE  
15 May 89

Registered Professional Engineer,  
TITLE  
New Jersey #GE28700  
Maryland #11579

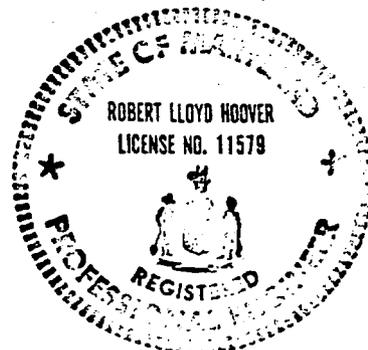




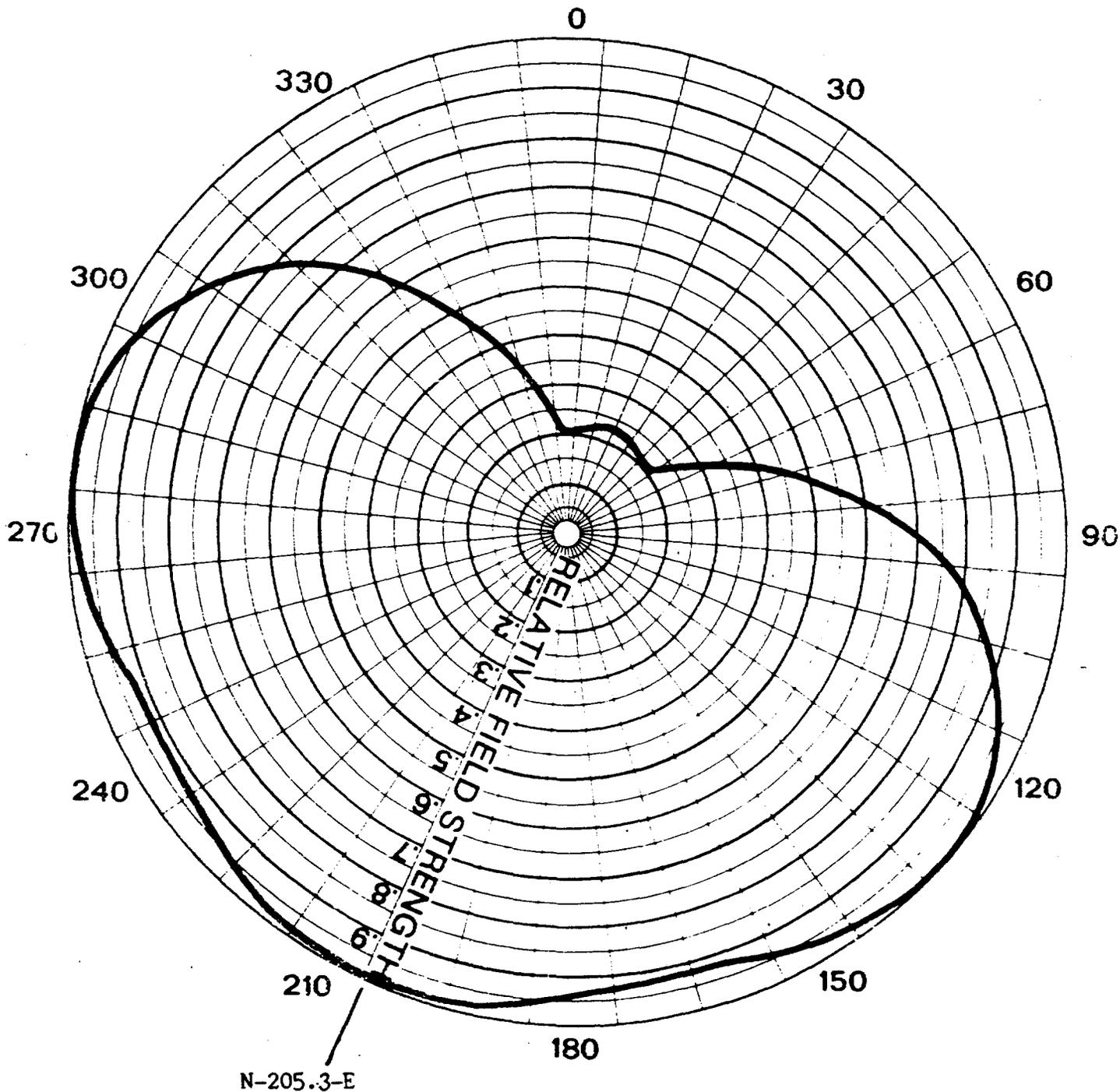
Figure 4

Tabulation of Bogner type B16UA Antenna  
Relative Field Strength in the Horizontal Plane  
from the Commission's Files

Channel 38

Raystay Company  
Lebanon, Pennsylvania

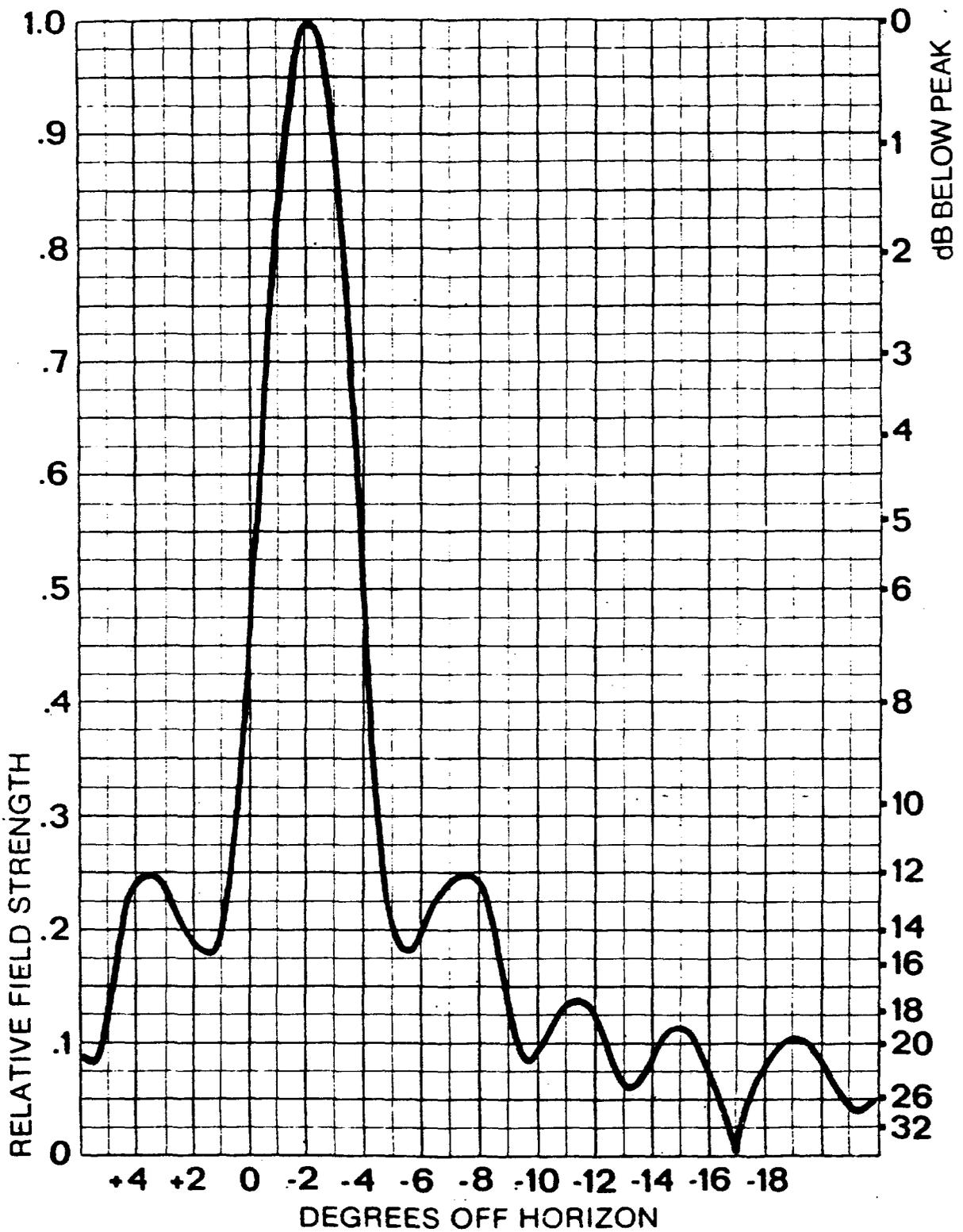
AZIMUTH	TABULATED GAIN	
-----	-----	
0.00	1.000	
10.00	0.970	
20.00	0.950	Antenna w/ its main lobe
30.00	0.925	Oriented at N-205.3-E
40.00	0.920	
50.00	0.940	
60.00	0.975	
70.00	1.000	
80.00	0.980	
90.00	0.950	
100.00	0.875	
110.00	0.775	
120.00	0.630	
130.00	0.470	
140.00	0.350	
150.00	0.230	
160.00	0.220	
170.00	0.225	
180.00	0.230	
190.00	0.225	
200.00	0.220	
210.00	0.230	
220.00	0.350	
230.00	0.470	
240.00	0.630	
250.00	0.775	
260.00	0.875	
270.00	0.950	
280.00	0.980	
290.00	1.000	
300.00	0.975	
310.00	0.940	
320.00	0.920	
330.00	0.925	
340.00	0.950	
350.00	0.970	



Bogner Broadcast Equipment Corp.  
Westbury, N.Y. 11590

**Figure 5**  
Horizontal Plot of  
Relative Field from B16UA Ant  
Oriented at N-205.3-E  
Channel 38  
Raystay Company  
Lebanon, Pennsylvania

R. L. HOOVER  
CONSULTING  
TELECOMMUNICATIONS ENGINEER



Bogner Broadcast Equipment Corp.  
 Westbury, N.Y. 11590

**Figure 6**  
 Vertical Shape Factor  
 for B16UA Antenna  
 with -2° Depression Angle  
 Channel 38  
 Raystay Company  
 Lebanon, Pennsylvania

---

R. L. HOOVER  
 CONSULTING  
 TELECOMMUNICATIONS ENGINEER

# ACRODYNE

Acrodyne Industries, Inc.  
516 Township Line Road  
Blue Bell, Pennsylvania 19422  
215/542-7000 800/523-2596  
Telex: 846358  
FAX: 215/540-5837

April 24, 1989

Mr. Robert Hoover  
11704 Seven Locks Road  
Potomac, MD 20854

Dear Bob:

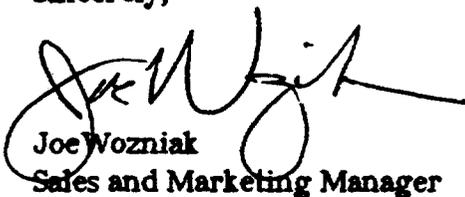
In response to the FAA's concern that you related to us, emissions below 400MHz, as measured at the output of our TLU/1KACT 1kW UHF TV Transmitter, operating on any UHF channel, would be less than the following levels:

108MHz-137MHz....87dB below video carrier  
225MHz-400MHz....78dB below video carrier

The performance specifications for this equipment are enclosed for your reference. Of course, to measure for compliance with the FAA's specifications requires special testing which could be performed at the factory or in the field at an additional charge.

If you have any questions, please do not hesitate to call us.

Sincerely,

  
Joe Wozniak  
Sales and Marketing Manager

R-6-12

R. L. HOOVER  
CONSULTING TELECOMMUNICATIONS ENGINEER

11704 SEVEN LOCKS ROAD  
POTOMAC, MARYLAND 20854  
(301) 983-0054

RECEIVED  
JUL 3 1989

June 30th, 1989

COHEN & BERFIELD

Mr. David Gardner  
Raystay Company

Dear David:

The Long Island FAA Office also approved your Lancaster proposed construction. As for Red Lion, please complete and return the attached form when you begin construction and again when you finish.

Sincerely,



Bob Hoover, PE

Copy to Mort Berfield, Esquire


**NOTICE OF PROPOSED CONSTRUCTION OR ALTERATION**
Aeronautical Study Number  
**87 ACA-0452-DE**

<b>1. Nature of Proposal</b>			<b>2. Complete Description of Structure</b>		
<b>A. Type</b> <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration	<b>B. Class</b> <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Temporary (Duration _____ months)	<b>C. Work Schedule Dates</b> Beginning <u>After FCC Apv'l</u> End <u>4 mo's</u>	<b>A.</b> Include effective radiated power and assigned frequency of all existing, proposed or modified AM, FM, or TV broadcast stations utilizing this structure. <b>B.</b> Include size and configuration of power transmission lines and their supporting towers in the vicinity of FAA facilities and public airports. <b>C.</b> Include information showing site orientation, dimensions, and construction materials of the proposed structure.		

**3A. Name and address of individual, company, corporation, etc. proposing the construction or alteration.** (Number, Street, City, State and Zip Code)

( 717 ) 243 - 4918  
 area code Telephone Number

**Mr. David A. Gardner**  
**Raystay Company**  
**P.O. Box 38**  
**Carlisle, Pennsylvania 17013**

**Propose to top mount two Low Power TV antennas on a self supporting pedestal on roof of bldg. Overall ht 187 ft agl, 527 ft amsl. Bldg roof ht msd w/ surveyor's cord. See Fig #1.**  
**Proposed Low Power TV sta's would operate on 525.25 MHz w/ 28.47 kW visual ERP & on 573.25 MHz w/ 26.4 kW Visual ERP.**

**B. Name, address and telephone number of proponent's representative if different than 3 above.**

**Bob Hoover, PE**  
**11704 Seven Locks Road**  
**Potomac, Maryland 20854**  
**(301) 983 - 0054**

(if more space is required, continue on a separate sheet.)

<b>4. Location of Structure</b>			<b>5. Height and Elevation</b> (Complete to the nearest foot)		
<b>A. Coordinates</b> (To nearest second)	<b>B. Nearest City or Town, and State</b> <b>Lancaster, PA</b>	<b>C. Name of nearest airport, heliport, flightpark, or seaplane base</b> <b>Habecker</b>	<b>A. Elevation of site above mean sea level</b> <b>340 ft</b>		
40° 03' 47" Latitude	(1) Distance to 4B - Miles	(1) Distance from structure to nearest point of nearest runway <b>2 mi</b>	<b>B. Height of Structure including all appurtenances and lighting (if any) above ground, or water if so situated</b> <b>187 ft</b>		
76° 19' 09" Longitude	(2) Direction to 4B -	(2) Direction from structure to airport <b>N-270-R</b>	<b>C. Overall height above mean sea level (A + B)</b> <b>527 ft</b>		

**D. Description of location of site with respect to highways, streets, airports, prominent terrain features, existing structures, etc. Attach a U.S. Geological Survey quadrangle map or equivalent showing the relationship of construction site to nearest airport(s).** (if more space is required, continue on a separate sheet of paper and attach to this notice.)

**See Figure #2, a 7 1/2-min Quadrangle Map for the area and Figure #3, a Tactical Pilotage Chart for the area. Erick Rd, Lancaster, Pennsylvania.**

Notice is required by Part 77 of the Federal Aviation Regulations (14 C.F.R. Part 77) pursuant to Section 1101 of the Federal Aviation Act of 1958, as amended (49 U.S.C. 1101). Persons who knowingly and willingly violate the Notice requirements of Part 77 are subject to a fine (criminal penalty) of not more than \$500 for the first offense and not more than \$2,000 for subsequent offenses, pursuant to Section 902(a) of the Federal Aviation Act of 1958, as amended (49 U.S.C. 1472(a)).

**I HEREBY CERTIFY that all of the above statements made by me are true, complete, and correct to the best of my knowledge. In addition, I agree to obstruction mark and/or light the structure in accordance with established marking & lighting standards if necessary.**

<b>Date</b> <b>Mar 3rd, 89</b>	<b>Typed Name/Title of Person Filing Notice</b> <b>Robert Lloyd Hoover, PE</b>	<b>Signature</b> 
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DR. R. L. HOOVER, P.E.

R. L. HOOVER  
CONSULTING TELECOMMUNICATIONS ENGINEER  
11704 SEVEN LOCKS ROAD  
POTOMAC, MARYLAND 20854  
(301) 983-0054

R-6-1F  
**RECEIVED**  
AUG 8 1989

August 8th, 1989

**COHEN & BERFIELD**

BY FEDERAL EXPRESS

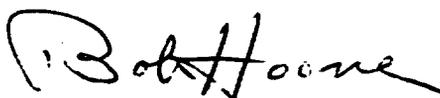
Atten: Mr. John Hepson  
Federal Aviation Administration  
Airways Facilities Div, Comm/Intef Section  
Fitzgerald Federal Bldg, AEA-435  
John F. Kennedy International Airport  
Jamaica, New York 11430

re: Study 89-AEA-0451-OE  
Raystay Company LPTV Application  
Lebanon, Pennsylvania

Dear Mr. Hepson:

This morning I received a call from Mr. Amour Brown in your office stating that our response to an Electromagnetic Compatibility Request had not been received. We are sending a copy of this response dated May 15th and mailed by First Class Mail.

Sincerely,



Bob Hoover, PE

Copy w/ May 15th response to Amour W. Brown, AEA-530

Blind copy to: Dave Gardner  
Mort Berfield, Esquire

DR. R. L. HOOVER, P.E.

R. L. HOOVER  
CONSULTING TELECOMMUNICATIONS ENGINEER  
11704 SEVEN LOCKS ROAD  
POTOMAC, MARYLAND 20854  
(301) 983-0054

R-6-1F  
**RECEIVED**  
AUG 22 1989

August 18th, 1989 COHEN & BERFIELD

Mr. David Gardner  
Raystay Company

Dear David:

The Long Island Office sent its approval for the Lebanon proposed LPTV construction after sending a copy of the May material on spurious jamming by Federal Express to them. Evidently, they lost the original response.

The form to be returned when you begin construction and again when you finish is also attached.

Sincerely,



Bob Hoover, PE

Copy to Mort Berfield, Esquire ✓

DO NOT REMOVE CARBONS

 U.S. Department of Transportation Federal Aviation Administration	<b>NOTICE OF PROPOSED CONSTRUCTION OR ALTERATION</b>	Aeronautical Study Number <b>89-AEA-0451-OE</b>
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<b>1. Nature of Proposal</b>			<b>2. Complete Description of Structure</b>		
<b>A. Type</b> <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration	<b>B. Class</b> <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Temporary (Duration: _____ months)	<b>C. Work Schedule Dates</b> Beginning After FCC Approval _____ End: <u>4 mo's</u>	<b>A.</b> Include effective radiated power and assigned frequency of all existing, proposed or modified AM, FM, or TV broadcast stations utilizing this structure.  <b>B.</b> Include size and configuration of power transmission lines and their supporting towers in the vicinity of FAA facilities and public airports.  <b>C.</b> Include information showing site orientation, dimensions, and construction materials of the proposed structure.		

<b>3A. Name and address of individual, company, corporation, etc. proposing the construction or alteration.</b> (Number, Street, City, State and Zip Code) ( 717 ) <u>243 - 4918</u> area code Telephone Number  Mr. David A. Gardner Raystay Company P.O. Box 38 Carlisle, Pennsylvania 17013			Propose to top mount two Low Power TV antennas on a self supporting pedestal on roof of bldg. Overall ht 158 ft agl, 628 ft amsl. See Fig #1. Bldg roof ht msd w/ surveyor's cord.  Proposed Low Power TV sta's would operate on 615.25 MHz w/ 28.16 kW visual ERP & on 717.25 MHz w/ 26.56 kW Visual ERP. Please refer to Figure 1.  (if more space is required, continue on a separate sheet.)		
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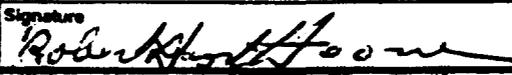
<b>B. Name, address and telephone number of proponent's representative if different than 3 above.</b> Bob Hoover, PE 11704 Seven Locks Road Potomac, Maryland 20854 (301) 983 - 0054		
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<b>4. Location of Structure</b>			<b>5. Height and Elevation (Complete to the nearest foot)</b>		
<b>A. Coordinates (To nearest second)</b> 40° 19' 49" Latitude 76° 25' 37" Longitude	<b>B. Nearest City or Town, and State</b> Lebanon, PA	<b>C. Name of nearest airport, heliport, flightpark, or seaplane base</b> Millard A/P & Keller Bros A/P 4.5 nmi to Keller & Millard	<b>A. Elevation of site above mean sea level</b> 470 ft	<b>B. Height of Structure including all appurtenances and lighting (if any) above ground, or water if so situated</b> 158 ft	<b>C. Overall height above mean sea level (A + B)</b> 628 ft

**D. Description of location of site with respect to highways, streets, airports, prominent terrain features, existing structures, etc. Attach a U.S. Geological Survey quadrangle map or equivalent showing the relationship of construction site to nearest airport(s). (if more space is required, continue on a separate sheet of paper and attach to this notice.)**  
 See Figure #2, a 7½-min Quadrangle Map for the area and Figure #3, a Tactical Pilotage Chart for the area. 625 Quentin Rd, Lebanon, Pennsylvania.

Notice is required by Part 77 of the Federal Aviation Regulations (14 C.F.R. Part 77) pursuant to Section 1101 of the Federal Aviation Act of 1958, as amended (49 U.S.C. 1101). Persons who knowingly and willingly violate the Notice requirements of Part 77 are subject to a fine (criminal penalty) of not more than \$500 for the first offense and not more than \$2,000 for subsequent offenses, pursuant to Section 902(a) of the Federal Aviation Act of 1958, as amended (49 U.S.C. 1472(a)).

I HEREBY CERTIFY that all of the above statements made by me are true, complete, and correct to the best of my knowledge. In addition, I agree to obstruction mark and/or light the structure in accordance with established marking & lighting standards if necessary.

<b>Date:</b> Feb 24th, 89	<b>Typed Name/Title of Person Filing Notice:</b> Robert Lloyd Hoover, PE	<b>Signature:</b> 
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**FOR FAA USE ONLY:** This form is to be used by the FAA. It is not to be used by the public. The FAA will either return this form or mail it to the appropriate authority.

The Proposed Construction or Alteration is:  New Construction  Alteration

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_